

THE DOW CHEMICAL COMPANY

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ork By V.K.Rowe

Subject

RESULTS OF RANGE FINDING
TOXICOLOGICAL TESTS ON
DIHYDROXY DICHLORO DIPHENYL
METHANE (PREVENTOL GD)

EPA-OTS

000049539L

86-870002137

Dustless
6-14-49

Rept. By V.K.Rowe

OK Rowe
6-7-49

*Irrelevant
& distribution*

UNIT INDEX

Toxicity and handling hazards are discussed.

INDEX HEADINGS

Diphenylmethane, dichloro dihydroxy

x,x-Methylenebis (x-chlorophenol)

Preventol GD

Phenol, x,x-methylene bis (x-chloro-)

SEP - 4 1947

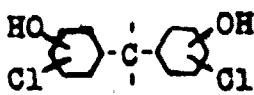
PROBLEM

Subject material is of interest because of its possible use
as an internal parasiticide and prophylactic agent.

MATERIAL

Name: Dichloro dihydroxy diphenyl methane

Synonym: Preventol GD

Formula: Structural: 
Empirical: C₁₃H₁₀Cl₂O₂

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Source: General Dyestuff Corp.

No other physical properties were given.

SUMMARY OF EXPERIMENTAL WORK

Acute Oral: The material, as a 10% solution in olive oil, was fed to rats. Single doses of 1.0 g./kg. allowed the survival of all animals treated and doses of 3.0 g./kg. caused the death of all animals treated.

Dietary Feeding: A range finding dietary feeding experiment was carried out with rats, using concentrations in the diet of 0.1, 0.3 and 1.0% of the test material. Results of this work indicate that the 0.1% diet was eaten fairly well and growth was fair; that the 0.3% diet was disliked by the animals and no weight increase occurred; and that the 1.0% diet was not accepted and appreciable weight loss occurred.

Eye Irritation: When the subject material, as a 40% solution in olive oil, was placed in the eye, it produced a severe reaction. Severe irritation of the conjunctival membranes and necrosis of the whole cornea was observed.

Skin Irritation: When the material, as a 10% solution in butyl carbitol acetate, was applied repeatedly to the ear and shaven belly of a rabbit, it produced only a very slight irritation characterized by very slight hyperemia and exfoliation.

CONCLUSIONS

- (1) The subject material is low in acute oral toxicity.
- (2) It cannot be fed to rats as a part of their diet in concentrations appreciably greater than 0.1%.
- (3) It is markedly irritating to the eyes.
- (4) It is only slightly irritating to the skin.

SUMMARY OF PRECAUTIONS FOR SAFE HANDLING

In handling this material measures should be taken to prevent strong solutions of the material and the solid from getting into the eyes. Prolonged and repeated skin contacts should be avoided.

WHAT TO DO IN CASE OF CONTACT

If the material gets into the eyes, they should be washed for at least 15 minutes with flowing water and medical attention should be obtained. Removal from the skin, can be accomplished by washing with soap and water. Grossly contaminated shoes and clothing should not be worn.

CERTIFICATE OF AUTHENTICITY

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